

Mason Staszal

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EDUCATION

GRADUATION

University of Michigan Ann Arbor College of Engineering

Expected May 2027

Computer Engineering BSE | Current GPA: 3.59 | Ann Arbor, MI

- **Completed Coursework:** Data Structures and Algorithms, Logic Design, Electronic Circuits, Calculus 3 & 4, Discrete Mathematics
- **Current Coursework:** Computer Organization, Computer Security, Signals and Systems, Probabilistic Methods

Brighton High School

May 2024

GPA: 4.18/4.00 | Class Rank: 26/470 | Summa Cum Laude | Brighton, MI

PROJECTS

Home Server and Networking Project | TrueNAS | Personal

2020 - Present

- Designed and deployed a home server environment using TrueNAS Scale and Docker/Portainer to manage network storage, run multiple virtual machines, and host various self-hosted services.
- Configured and managed applications such as an image and media server accessible remotely via Tailscale.
- Set up a local area network with Cisco network switches and access points.

Drone Pathfinding | C++ | University of Michigan

Fall 2025

- Designed a high-performance solution in C++ to the Traveling Salesman Problem.
- Implemented a Branch and Bound algorithm using a Minimum Spanning Tree pruning heuristic.

Assembler and Linker | C | University of Michigan

Winter 2026

- Developed an assembler in C to parse and translate LC-2K assembly into machine-readable object files.
- Engineered a linker to resolve global symbols and relocate memory addresses, successfully combining multiple object files into a single executable.

Web Application Vulnerability Testing | Python, SQL, JavaScript | University of Michigan

Winter 2026

- Exploited critical web application vulnerabilities (SQLi, XSS, CSRF) in a sandbox environment to demonstrate the mechanics of data exfiltration and account compromise.
- Extracted sensitive database records and bypassed authentication by engineering SQL injection payloads.
- Leveraged client-side vulnerabilities by crafting XSS payloads to extract sensitive session data and forging HTTP requests (CSRF) to execute unauthorized backend commands.

TECHNICAL SKILLS

Languages: C/C++, MATLAB, Verilog, Java, LaTeX

Tools & Platforms: Linux, Git, LTSpice, Microsoft Office Suite, TrueNAS Scale

LEADERSHIP EXPERIENCE

Eagle Scout | Boy Scouts of America

Fall 2012 - October 2023

- Achieved highest rank in scouting after leading a service project totaling 100+ volunteer hours.
- Planned, budgeted, and executed a community renovation project, supervising a team of 10+ volunteers.
- Demonstrated long-term commitment and discipline by fulfilling merit and service requirements throughout 10+ years in Scouting.

WORK EXPERIENCE

Brighton High School

May 2022 – June 2024

Lifeguard

Brighton, MI

- Supervised swimmers and enforced pool rules, ensuring a safe environment for 100+ people daily.
- Communicated effectively with patrons and co-workers to resolve issues calmly and professionally.